

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

**Certified Gold Reference Material Product Code**

## G304-10

### Certified Control Values

**50 gram Fire Assay**

|                     |               |
|---------------------|---------------|
| Gold Grade          | 0.56 ppm      |
| Standard Deviation  | 0.04 ppm      |
| Confidence Interval | +/- 0.008 ppm |

**Aqua Regia Digest**

|                     |               |
|---------------------|---------------|
| Gold Grade          | 0.55 ppm      |
| Standard Deviation  | 0.03 ppm      |
| Confidence Interval | +/- 0.011 ppm |



### CRM Details

| <b>Control Statistic Details</b>  | <b>Neutron Activation Analysis Results (ppm)</b>   |          | <b>Major Elements Fusion / XRF (%)</b> |    |
|---|--|----------|--|----|
|   | Control statistics were produced from results accumulated in the :<br><u>Apr-2004</u> Geostats Pty Ltd Laboratory Round Robin Program.<br><u>88</u> laboratories tested this material using 50 gram Fire Assay.<br><u>41</u> laboratories tested it using an Aqua Regia Technique. | Antimony | 2.23                                   | Fe |
| <b>Source Material</b><br>Prior to homogenisation and testing, this material was sourced from Costean Material ex New South Wales   | Arsenic  | 10.7     | SiO2                                   | nr |
| <b>Colour Designation</b><br>Very pale orange   | Barium   | 639      | Al2O3                                  | nr |
| <b>Usage</b><br>This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.   | Bromine  | <1       | TiO2                                   | nr |
| <b>Preparation and Packaging</b><br>All standards are dried in an oven for a minimum of 12 hours at 110C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an Air Classifier. The material is then homogenised and stored in a sealed, stable container ready for final packaging.<br><br>Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage. | Cadmium  | nr       | MnO                                    | nr |
| <b>Assay Testwork</b><br>All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across the world. Results are compiled into a comprehensive report detailing statistics for each standard. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.   | Cerium   | 30.1     | CaO                                    | nr |
|   | Caesium  | <1       | P                                      | nr |
|   | Chromium   | 72.7     | S                                      | nr |
|   | Cobalt   | 9.98     | MgO                                    | nr |
|   | Europium   | 0.86     | K2O                                    | nr |
|   | Gold ppb   | 522      | Na2O                                   | nr |
|   | Hafnium  | 2.07     | LOI1000                                | nr |
|   | Iridium ppb  | <20      |  |    |
|   | Iron %   | 3.51     |  |    |
|   | Lanthanum  | 13.5     |  |    |
|   | Lutetium   | <0.2     |  |    |
|   | Molybdenum   | <5       |  |    |
|   | Nickel   | nr       |  |    |
|   | Rubidium   | 77.2     |  |    |
|   | Samarium   | 3.08     |  |    |
|   | Scandium   | 12.7     |  |    |
|   | Selenium   | <5       |  |    |
|   | Sodium %   | 2.72     |  |    |
|   | Tantalum   | <1       |  |    |
|   | Tellurium  | <5       |  |    |
|   | Terbium  | nr       |  |    |
|   | Thorium  | 2.57     |  |    |
|   | Tin  | nr       |  |    |
|   | Tungsten   | <2       |  |    |
|   | Uranium  | <2       |  |    |
|   | Ytterbium  | 1.43     |  |    |
|   | Zinc   | 169      |  |    |
|   | Zirconium  | <500     |  |    |
|   | Calcium%   | 1.22     |  |    |
|   | Potassium %  | 3.93     |  |    |
|   | Silver   | <5       |  |    |
|   | Mercury  | nr       |  |    |
|   | Neodymium  | nr       |  |    |
|   | Strontium  | nr       |  |    |

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